



60si

SEQUENCE LISTING

5

(1) GENERAL INFORMATION

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(ii) TITLE OF THE INVENTION: METHODS AND
FORMULATIONS FOR PREVENTING PROGRESSION OF NEUROPATHIC PAIN

15

(iii) NUMBER OF SEQUENCES: 36

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25

(v) COMPUTER READABLE FORM:

20 (A) MEDIUM TYPE: Diskette
(B) COMPUTER: IBM Compatible
(C) OPERATING SYSTEM: DOS
30 (D) SOFTWARE: FastSEQ for Windows Version 2.0

(vi) CURRENT APPLICATION DATA:

35 (A) APPLICATION NUMBER: 08/496,847
(B) FILING DATE: 27-JUN-1995
(C) CLASSIFICATION:

(viii) ATTORNEY/AGENT INFORMATION:

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62

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(2) INFORMATION FOR SEQ ID NO:1:

5

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

10

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

15

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: MVIIA/SNX-111, FIGURE 1

a
cont.
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

20

Cys Lys Gly Lys Gly Ala Lys Cys Ser Arg Leu Met Tyr Asp Cys Cys
1 5 10 15

25

Thr Gly Ser Cys Arg Ser Gly Lys Cys
20 25

(2) INFORMATION FOR SEQ ID NO:2:

30

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

35

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

40

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: MVIIIB/SNX-159, FIGURE 1

63

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:

Cys Lys Gly Lys Gly Ala Ser Cys His Arg Thr Ser Tyr Asp Cys Cys
1 5 10 15

5

Thr Gly Ser Cys Asn Arg Gly Lys Cys
20 25

(2) INFORMATION FOR SEQ ID NO:3:

10

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 27 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

15

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

20

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: GVIA/SNX-124, FIGURE 1

25

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 4
- (D) OTHER INFORMATION: /note= "where X is hydroxyproline"

30

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 10
- (D) OTHER INFORMATION: /note= "where X is hydroxyproline"

35

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 21
- (D) OTHER INFORMATION: /note= "where X is hydroxyproline"

40

64

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

Cys Lys Ser Xaa Gly Ser Ser Cys Ser Xaa Thr Ser Tyr Asn Cys Cys
1 5 10 15

5

Arg Ser Cys Asn Xaa Tyr Thr Lys Arg Cys Tyr
20 25

(2) INFORMATION FOR SEQ ID NO:4:

10

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 29 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

15

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

20

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: GVIIA/SNX-178, FIGURE 1

25

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 4
- (D) OTHER INFORMATION: /note= "where X is hydroxyproline"

30

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 7
- (D) OTHER INFORMATION: /note= "where X is hydroxyproline"

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:4:

Cys Lys Ser Xaa Gly Thr Xaa Cys Ser Arg Gly Met Arg Asp Cys Cys
1 5 10 15

40

Thr Ser Cys Leu Leu Tyr Ser Asn Lys Cys Arg Arg Tyr
20 25

65

(2) INFORMATION FOR SEQ ID NO:5:

(i) SEQUENCE CHARACTERISTICS:

- 5 (A) LENGTH: 27 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

10 (iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

- (C) INDIVIDUAL ISOLATE: RVIA/SNX-182, FIGURE 1

15 (ix) FEATURE:

- (A) NAME/KEY: Modified-site
(B) LOCATION: 4
(D) OTHER INFORMATION: /note= "where X is hydroxyproline"

20 (ix) FEATURE:

- (A) NAME/KEY: Modified-site
(B) LOCATION: 7
(D) OTHER INFORMATION: /note= "where X is hydroxyproline"

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:5:

Cys Lys Pro Xaa Gly Ser Xaa Cys Arg Val Ser Ser Tyr Asn Cys Cys
1 5 10 15

30

Ser Ser Cys Lys Ser Tyr Asn Lys Lys Cys Gly
20 25

(2) INFORMATION FOR SEQ ID NO:6:

35

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 24 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

40

(ii) MOLECULE TYPE: protein

66

(iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: SVIA/SNX-157, FIGURE 1

5

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 7

(D) OTHER INFORMATION: /note= "where X is hydroxyproline"

10

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

Cys Arg Ser Ser Gly Ser Xaa Cys Gly Val Thr Ser Ile Cys Cys Gly

15

1

5

10

15

Arg Cys Tyr Arg Gly Lys Cys Thr

20

20 (2) INFORMATION FOR SEQ ID NO:7:

*A
cont.*

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 27 amino acids

(B) TYPE: amino acid

25

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

30

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: TVIA/SNX-185, FIGURE 1

(ix) FEATURE:

35

(A) NAME/KEY: Modified-site

(B) LOCATION: 4

(D) OTHER INFORMATION: /note= "where X is hydroxyproline"

(ix) FEATURE:

40

(A) NAME/KEY: Modified-site

(B) LOCATION: 10

(D) OTHER INFORMATION: /note= "where X is hydroxyproline"

67

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 21
- (D) OTHER INFORMATION: /note= "where X is hydroxyproline"

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:7:

Cys	Leu	Ser	Xaa	Gly	Ser	Ser	Cys	Ser	Xaa	Thr	Ser	Tyr	Asn	Cys	Cys
10	1			5					10				15		
Arg Ser Cys Asn Xaa Tyr Ser Arg Lys Cys Arg															
20 25															

15 (2) INFORMATION FOR SEQ ID NO:8:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 26 amino acids
- (B) TYPE: amino acid
- 20 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

25 (iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: SVIB/SNX-183, FIGURE 1

30 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:8:

Cys	Lys	Leu	Lys	Gly	Gln	Ser	Cys	Arg	Lys	Thr	Ser	Tyr	Asp	Cys	Cys
1	5								10				15		
Ser Gly Ser Cys Gly Arg Ser Gly Lys Cys															
20 25															

35 (2) INFORMATION FOR SEQ ID NO:9:

40 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 amino acids
- (B) TYPE: amino acid

68

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

5 (iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: SNX-190, FIGURE 2

10

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:9:

Cys Lys Gly Ala Gly Ala Lys Cys Ser Arg Leu Met Tyr Asp Cys Cys
1 5 10 15

15

Thr Gly Ser Cys Arg Ser Gly Lys Cys
20 25

(2) INFORMATION FOR SEQ ID NO:10:

20

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

25

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

30

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: SNX-191, FIGURE 2

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:10:

Cys Ala Gly Ala Gly Ala Lys Cys Ser Arg Leu Met Tyr Asp Cys Cys
1 5 10 15

40

Thr Gly Ser Cys Arg Ser Gly Lys Cys
20 25

69

(2) INFORMATION FOR SEQ ID NO:11:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 26 amino acids
- 5 (B) TYPE: amino acid
- (C) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

10 (iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: SNX-193, FIGURE 2

15

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:11:

Cys Lys Gly Ala Gly Ala Lys Cys Ser Arg Leu Met Tyr Asp Cys Cys
1 5 10 15

20

Thr Gly Ser Cys Arg Ser Gly Lys Cys Gly
20 25

(2) INFORMATION FOR SEQ ID NO:12:

25

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

30

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

35

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: SNX-194, FIGURE 2

(ix) FEATURE:

40

(A) NAME/KEY: Modified-site

(B) LOCATION: 12

(D) OTHER INFORMATION: /note= "where X is Nle"

70

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(xi) SEQUENCE DESCRIPTION: SEQ ID NO:12:

Cys Lys Gly Ala Gly Ala Lys Cys Ser Arg Leu Xaa Tyr Asp Cys Cys
1 5 10 15

5

Thr Gly Ser Cys Arg Ser Gly Lys Cys
20 25

(2) INFORMATION FOR SEQ ID NO:13:

10

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

15

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

20

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: SNX-195, FIGURE 2

a'
cont.

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:13:

25

Cys Lys Gly Ala Gly Ala Lys Cys Ser Arg Leu Xaa Tyr Asp Cys Cys
1 5 10 15

30

Thr Gly Ser Cys Arg Ser Gly Ala Cys
20 25

(2) INFORMATION FOR SEQ ID NO:14:

35

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 27 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

40

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

71

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: SNX-196, FIGURE 2

5 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:14:

Asn Cys Lys Gly Ala Gly Ala Lys Cys Ser Arg Leu Xaa Tyr Asp Cys
1 5 10 15

10 Cys Thr Gly Ser Cys Arg Ser Gly Ala Cys Gly
20 25

(2) INFORMATION FOR SEQ ID NO:15:

15 (i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 27 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

20 (ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

25 (C) INDIVIDUAL ISOLATE: SNX-197, FIGURE 2

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:15:

30 Asn Ser Cys Lys Gly Ala Gly Ala Lys Cys Ser Arg Leu Xaa Tyr Asp
1 5 10 15

Cys Cys Thr Gly Ser Cys Arg Ser Gly Ala Cys
20 25

35

(2) INFORMATION FOR SEQ ID NO:16:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

5 (vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: SNX-198, FIGURE 2

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:16:

10

Cys Lys Gly Lys Gly Ala Lys Cys Ser Arg Leu Met Tyr Asp Cys Cys
1 5 10 15

15

Thr Gly Ser Cys Ala Ser Gly Lys Cys
20 25

(2) INFORMATION FOR SEQ ID NO:17:

a (i) SEQUENCE CHARACTERISTICS:

20

- (A) LENGTH: 25 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

25

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

30

(C) INDIVIDUAL ISOLATE: SNX-200, FIGURE 2

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:17:

35

Cys Lys Gly Ala Gly Ala Ala Cys Ser Arg Leu Met Tyr Asp Cys Cys
1 5 10 15

Thr Gly Ser Cys Arg Ser Gly Lys Cys
20 25

40 (2) INFORMATION FOR SEQ ID NO:18:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

5 (ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

10 (C) INDIVIDUAL ISOLATE: SNX-201, FIGURE 2

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:18:

15 Cys Lys Gly Lys Gly Ala Lys Cys Arg Lys Thr Ser Tyr Asp Cys Cys
1 5 10 15

Thr Gly Ser Cys Arg Ser Gly Lys Cys
20 25

20 (2) INFORMATION FOR SEQ ID NO:19:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 26 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

30 (iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: SNX-202, FIGURE 2

35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:19:

Cys Lys Leu Lys Gly Gln Ser Cys Ser Arg Leu Met Tyr Asp Cys Cys
1 5 10 15

40 Ser Gly Ser Cys Gly Arg Ser Gly Lys Cys
20 25

(2) INFORMATION FOR SEQ ID NO:20:

(i) SEQUENCE CHARACTERISTICS:

- 5 (A) LENGTH: 27 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

10 (iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

- (C) INDIVIDUAL ISOLATE: SNX-207, FIGURE 2

15 (ix) FEATURE:

- (A) NAME/KEY: Modified-site
(B) LOCATION: 4
(D) OTHER INFORMATION: /note= "where X is hydroxyproline"

20 (ix) FEATURE:

- (A) NAME/KEY: Modified-site
(B) LOCATION: 21
(D) OTHER INFORMATION: /note= "where X is hydroxyproline"

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:20:

Cys Leu Ser Xaa Gly Ser Ser Cys Ser Arg Leu Met Tyr Asn Cys Cys
1 5 10 15

30

Arg Ser Cys Asn Xaa Tyr Ser Arg Lys Cys Arg
20 25

(2) INFORMATION FOR SEQ ID NO:21:

35

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 26 amino acids
(B) TYPE: amino acid
(D) TOPOLOGY: linear

40

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: SNX-231, FIGURE 2

5

(ix) FEATURE:

(A) NAME/KEY: Modified-site

(B) LOCATION: 7

(D) OTHER INFORMATION: /note= "where X is hydroxyproline"

10

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:21:

Cys Lys Gly Lys Gly Ala Xaa Cys Arg Lys Thr Met Tyr Asp Cys Cys

15

1

5

10

15

Ser Gly Ser Cys Gly Arg Arg Gly Lys Cys

20

25

20 (2) INFORMATION FOR SEQ ID NO:22:

a
cont.
(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 6 amino acids

(B) TYPE: amino acid

25

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

30

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: CONOPEPTIDE GROUP 1 FRAGMENT

35

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:22:

Cys Lys Gly Lys Gly Ala

1

5

40 (2) INFORMATION FOR SEQ ID NO:23:

(i) SEQUENCE CHARACTERISTICS:

76

- (A) LENGTH: 1 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

5 (ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

10 (C) INDIVIDUAL ISOLATE: CONOPEPTIDE GROUP 1 FRAGMENT

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:23:

15 Cys
1

a
cont.
(2) INFORMATION FOR SEQ ID NO:24:

- 20 (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 8 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

25 (ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

30 (C) INDIVIDUAL ISOLATE: CONOPEPTIDE GROUP 1 FRAGMENT

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:24:

35 Tyr Asp Cys Cys Thr Gly Ser Cys
1 5

(2) INFORMATION FOR SEQ ID NO:25:

- 40 (i) SEQUENCE CHARACTERISTICS:
- (A) LENGTH: 1 amino acids
 - (B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

5 (iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: CONOPEPTIDE GROUP 1 FRAGMENT

10

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:25:

Arg

1

15

(2) INFORMATION FOR SEQ ID NO:26:

a
cont.
(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 3 amino acids

20 (B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

25 (iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: CONOPEPTIDE GROUP 1 FRAGMENT

30

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:26:

Gly Lys Cys

1

35

(2) INFORMATION FOR SEQ ID NO:27:

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 9 amino acids

40 (B) TYPE: amino acid

(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

5 (vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: CONOPEPTIDE GROUP 2 FRAGMENT

(ix) FEATURE:

(A) NAME/KEY: Modified-site

10 (B) LOCATION: 4

(D) OTHER INFORMATION: /note= "where X is hydroxyproline"

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:27:

15

Cys Leu Ser Xaa Gly Ser Ser Cys Ser

1 5

(2) INFORMATION FOR SEQ ID NO:28:

20

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 8 amino acids

(B) TYPE: amino acid

(D) TOPOLOGY: linear

25

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

30

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: CONOPEPTIDE GROUP 2 FRAGMENT

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:28:

35

Tyr Asn Cys Cys Arg Ser Cys Asn

1 5

(2) INFORMATION FOR SEQ ID NO:29:

40

(i) SEQUENCE CHARACTERISTICS:

(A) LENGTH: 26 amino acids

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- (B) TYPE: amino acid
(D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

5

(iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

- (C) INDIVIDUAL ISOLATE: SNX-230, FIGURE 1

10

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:29:

Cys Lys Gly Lys Gly Ala Pro Cys Arg Lys Thr Met Tyr Asp Cys Cys
15 1 5 10 15

Ser Gly Ser Cys Gly Arg Arg Gly Lys Cys
20 25

*A
cont.*

20 (2) INFORMATION FOR SEQ ID NO:30:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 27 amino acids
(B) TYPE: amino acid
25 (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

30 (iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

- (C) INDIVIDUAL ISOLATE: SNX-236, FIGURE 2

35 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:30:

Cys Leu Ser Xaa Gly Ser Ser Cys Ser Arg Leu Met Tyr Asn Cys Cys
1 5 10 15

40 Arg Ser Cys Asn Pro Tyr Ser Arg Lys Cys Arg
20 25

80

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(2) INFORMATION FOR SEQ ID NO:31:

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 6 amino acids
- 5 (B) TYPE: amino acid
- (C) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

10 (iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

- (C) INDIVIDUAL ISOLATE: CONOPEPTIDE GROUP 2 FRAGMENT

15

*a
cont.*
(xi) SEQUENCE DESCRIPTION: SEQ ID NO:31:

Tyr Ser Arg Lys Cys Arg
1 5

20

(2) INFORMATION FOR SEQ ID NO:32:

(i) SEQUENCE CHARACTERISTICS:

- 25
- (A) LENGTH: 25 amino acids
 - (B) TYPE: amino acid
 - (D) TOPOLOGY: linear

(ii) MOLECULE TYPE: protein

30

(iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

- (C) INDIVIDUAL ISOLATE: SNX-239, FIGURE 2

35

40

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:32:

Cys Lys Gly Lys Gly Ala Lys Cys Ser Leu Leu Met Tyr Asp Cys Cys
1 5 10 15

5

Thr Gly Ser Cys Arg Ser Gly Lys Cys
20 25

(2) INFORMATION FOR SEQ ID NO:33:

10

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

15

1
a
cont.

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

20

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: SNX-199, FIGURE 2

25

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:33:

Cys Lys Gly Lys Gly Ala Lys Cys Ser Ala Leu Met Tyr Asp Cys Cys
1 5 10 15

30

Thr Gly Ser Cys Arg Ser Gly Lys Cys
20 25

(2) INFORMATION FOR SEQ ID NO:34:

35

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

40

(ii) MOLECULE TYPE: protein

(iii) HYPOTHETICAL: NO

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: SNX 240, FIGURE 2

(ix) FEATURE:

5

(A) NAME/KEY: Modified-site

(B) LOCATION: 1

(D) OTHER INFORMATION: /note= "The cysteine residue
carries an acetyl group"

10

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:34:

Cys	Lys	Gly	Lys	Gly	Ala	Lys	Cys	Ser	Leu	Leu	Met	Tyr	Asp	Cys	Cys
1															

15

Thr	Gly	Ser	Cys	Arg	Ser	Gly	Lys	Cys
	20					25		

(

a

cont.

(2) INFORMATION FOR SEQ ID NO:35:

20

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

25

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

30

(vi) ORIGINAL SOURCE:

(C) INDIVIDUAL ISOLATE: SNX-273, FIGURE 2

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:35:

35

Cys	Lys	Gly	Lys	Gly	Ala	Lys	Cys	Ser	Arg	Leu	Ala	Tyr	Asp	Cys	Cys
1															

Thr	Gly	Ser	Cys	Arg	Ser	Gly	Lys	Cys
	20					25		

40

(2) INFORMATION FOR SEQ ID NO:36:

83

(i) SEQUENCE CHARACTERISTICS:

- (A) LENGTH: 25 amino acids
- (B) TYPE: amino acid
- (D) TOPOLOGY: linear

5

(ii) MOLECULE TYPE: peptide

(iii) HYPOTHETICAL: NO

10 (vi) ORIGINAL SOURCE:

- (C) INDIVIDUAL ISOLATE: SNX-279, FIGURE 2

(ix) FEATURE:

- (A) NAME/KEY: Modified-site
- (B) LOCATION: 12
- (D) OTHER INFORMATION: /note= "where X is sulfoxy-methionine"

15 (xi) SEQUENCE DESCRIPTION: SEQ ID NO:36:

20 Cys Lys Gly Lys Gly Ala Lys Cys Ser Arg Leu Xaa Tyr Asp Cys Cys
1 5 10 15

Thr Gly Ser Cys Arg Ser Gly Lys Cys
20 25